



Config Utility

User's Manual

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Version	Date	Description
1.0	November 2001	Original Release for firmware Ix701xxx or higher, Boot Block BBIC0701 or higher. Author Izak Shoshana
2.1.14	December 2001	Added support for URL retrieve, MIME attachment Email send, Email retrieve, script tool and communication platform change. To be used with firmware Ix701xxx or higher, Boot Block BBIC0701 or higher. Author Izak Shoshana

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1. Overview

This User Manual is intended to familiarize prospective customers of Connect One's products (iChip, iLAN, iModem, II-EVB-100) with the functionality of the iChip Config utility.

Connect One's iChip™ Internet Controller™ is an Internet peripheral chip that offloads Internet connectivity tasks from a host processor. The host processor communicates with iChip via Connect One's high-level AT+i™ command set. The AT+i API requires writing just a few lines of code on the host processor to implement Internet connectivity.

The iChip Config utility, combined with iChip, iModem, iLAN or II-EVB-100 enables quick and full iChip configuration, serial-based and Web-based updating of firmware, and packaging of a Website and parameters file. This functionality is achieved from any device, machine, or system.

2. Setup

iChip Config installation is quick and easy. The program is suitable for Win98 and Win 2000 OS with at least one free COM port.

From the Release CD or after downloading the iChip Config installation ZIP file, extract the *iChipConfigINST.zip* file into a temp directory and run *SETUP.EXE*.

The following screen should appear:



Hit *OK* to continue the installation or *Exit Setup* to leave the setup.



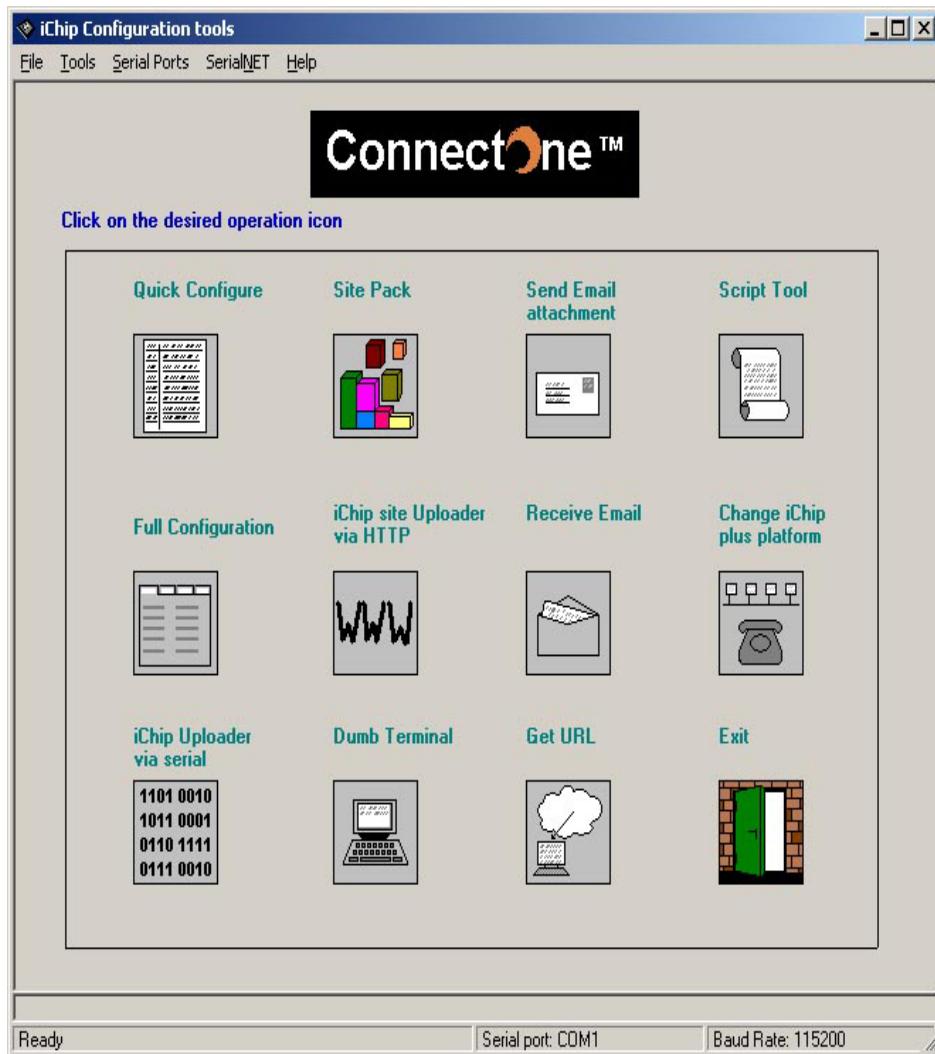
Either change the directory using the *Change Directory* button or click the  button to continue the installation.

The iChip Config installation wizard reports a successful completion of the Setup:



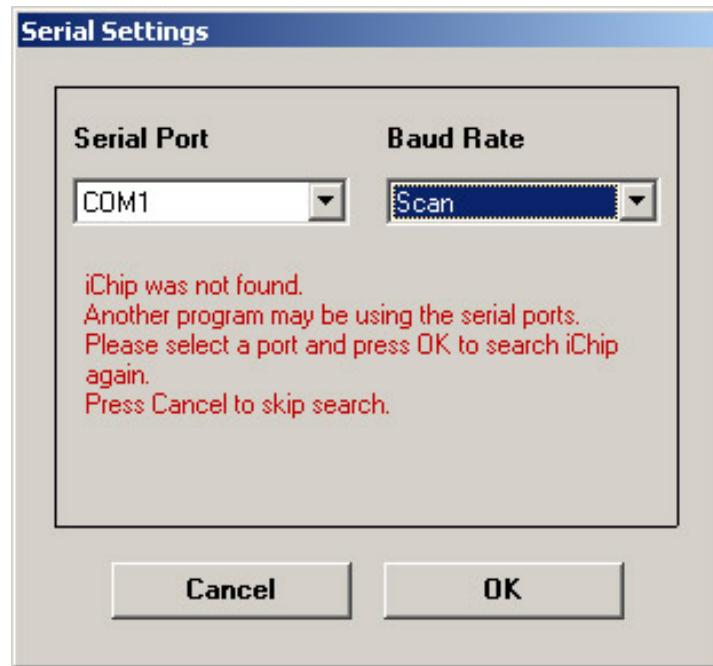
3. Getting Started

To start the iChip Config Utility, click on *Start* → *Programs* → *ConnectOne* → *iChipConfig*. The following screen will appear:



Connect the iModem, iLAN, or II-EVB-100 to the PC's RS232 COM Port and turn on the device's power.

When clicking on any of the icons (except *Exit*) iChip Config will attempt to locate the iChip on one of the PC's COM ports at the default baud rate: 38400. If the iChip is not located the following dialog will appear.



This dialog will also be displayed when choosing *Serial Ports* from the menu bar.

On the left side of the Combo Box, choose the serial COM port to which iChip is attached. On the right side of the Combo Box, chose the exact baud rate used by iChip, or select *Scan* if you don't know the baud rate.

If *Scan* was chosen, the iChip Config utility will run through the different baud rates until the right one is found.



NOTE: if the iChip Config utility still fails to find iChip, make sure that an open application like (Palm HotSync) is not holding the port, or switch to a different COM port and try *Scan* again. After iChip Config has found the baud rate, you can easily change the baud by simply loading the *Serial Settings* screen and choosing the desired baud rate.

4. Features

The Main Screen enables access to the entire iChip Config utility capabilities. Only one option can be chosen at a time. The options available from the main screen are:

- Quick Configure
- Full Configuration
- Remote Firmware Update (iChip Uploader via Serial and HTTP)
- Web Parameters Update (Site Pack)
- Dumb Terminal
- SerialNET Mode selection
- RPF File Manipulation
- Send email attachment
- Receive emails
- Script Tool
- Change iChip Plus communication platform
- Get URL
- Serial COM Port and Baud Rate Selection

Each of these options is explained below.

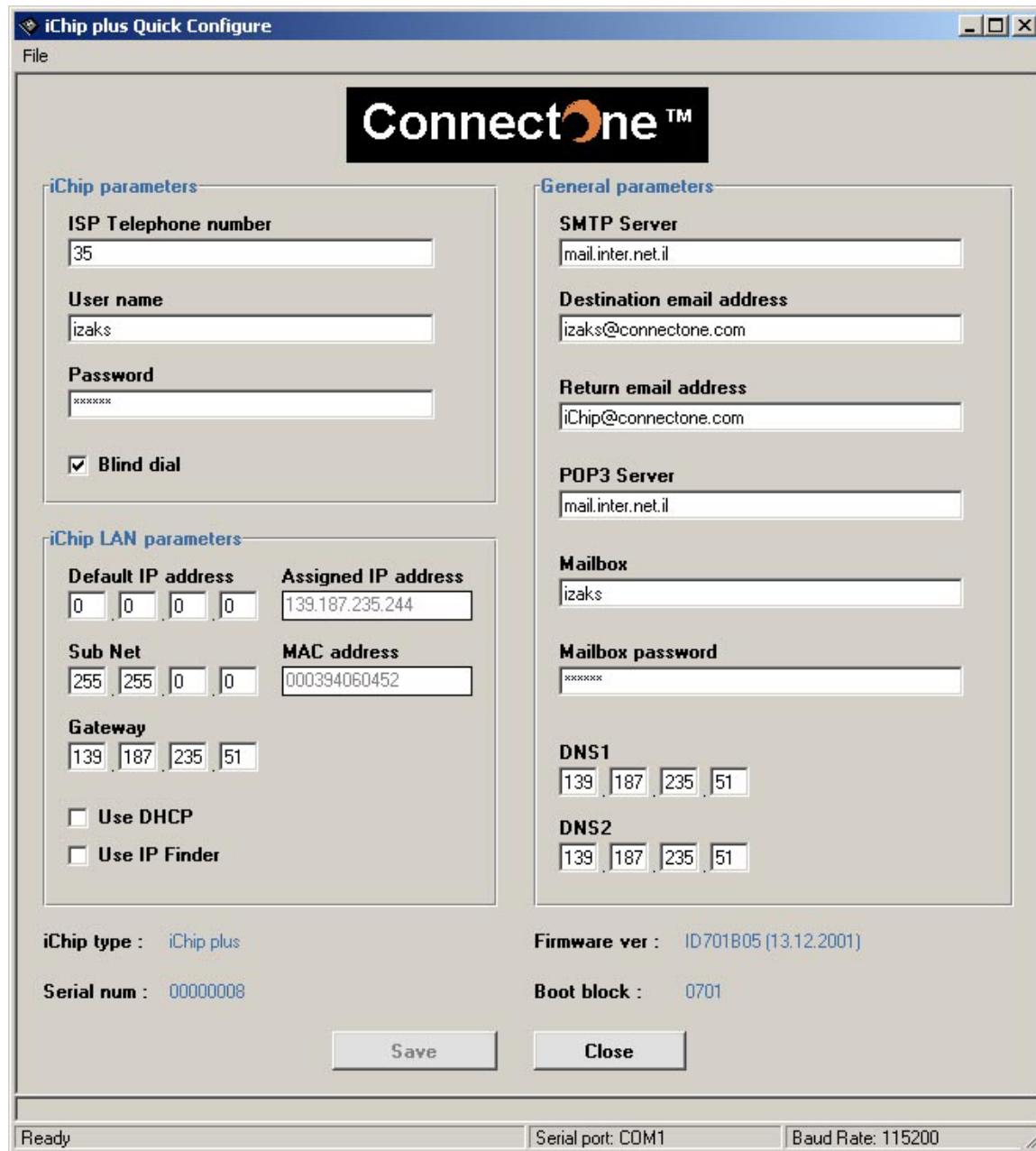
4.1 Quick Configure

The *Quick Configure* screen allows the user to configure only the essential AT+*i* parameters required for iModem, iLAN or II-EVB-100 to be able to send and retrieve an email.

Usually this is a good way to make sure that the iChip is operational on the LAN or that it is configured correctly to work with your ISP.

Once all the relevant parameters are applied, specific parameters for other tasks, like socket manipulation, Web serving, etc., can be done with no need to reconfigure Connection, Servers or ISP-related parameters.

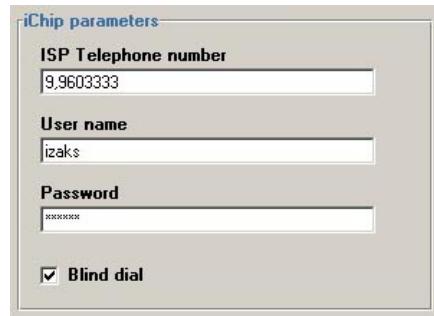
When *Quick Configure* is chosen for the II-EVB-100 or iChip Plus, the following screen appears:



4.1.1. iChip Parameters

Fill in the ISP telephone number, including external line digit, area code if needed, etc., and the ISP user name and password.

When using iLAN, the *Quick Configure* screen includes the following fields:



The image shows a configuration screen titled "iChip parameters". It contains four text input fields: "ISP Telephone number" with the value "9.9603333", "User name" with the value "izaks", "Password" with the value "xxxxxx", and a checked checkbox labeled "Blind dial".

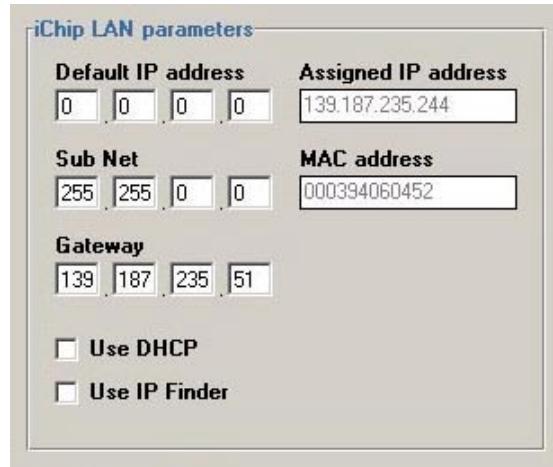
4.1.2. iChip LAN Parameters

iChip LAN supports DHCP and BootP servers, so if a DHCP server is available on the LAN, check *Use DHCP*. Once the Ethernet cable is connected, iChip will receive the IP address, Subnet and Gateway directly from the DHCP server.

If there is no DHCP server on the LAN, ask your System Administrator for a free IP address, Subnet and the default Internet gateway IP address.

iLAN also supports plug and play operation.

If you wish to configure iLAN using the IP Finder utility via the Web, mark the *Use IP Finder* checkbox and revert to the IP finder utility for additional information.



The image shows a configuration screen titled "iChip LAN parameters". It contains several input fields: "Default IP address" (0.0.0.0), "Assigned IP address" (139.187.235.244), "Sub Net" (255.255.0.0), "MAC address" (000394060452), "Gateway" (139.187.235.51), and two checkboxes: "Use DHCP" (unchecked) and "Use IP Finder" (unchecked).

4.1.3. General Parameters

In order for iChip to send and receive email, mail servers and mailbox parameters must be configured.

The *SMTP Server* is the outgoing mail server address as specified by your ISP. The POP3 Server is the incoming mail server address as specified by your ISP.

The *Return email address* is the email address that you choose to assign for email retrievals.

The *Mailbox* and *Mailbox password* are the specified user name and password of the email client.

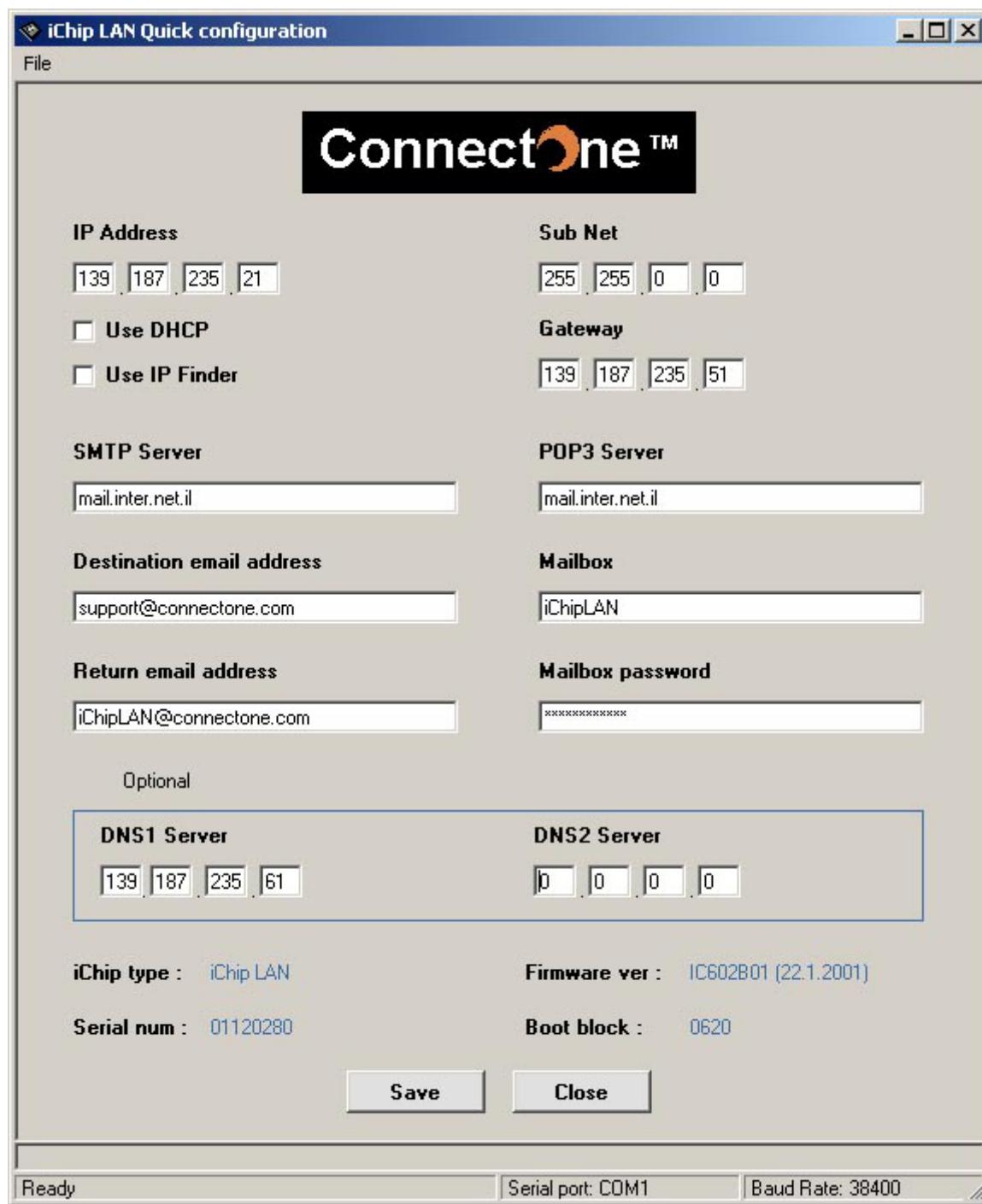
Some ISPs require the *DNS* address to resolve the logical mail server name into an IP address. If your ISP assigns a DNS address, there is no need enter any values. Just leave them at 0.0.0.0.

General parameters

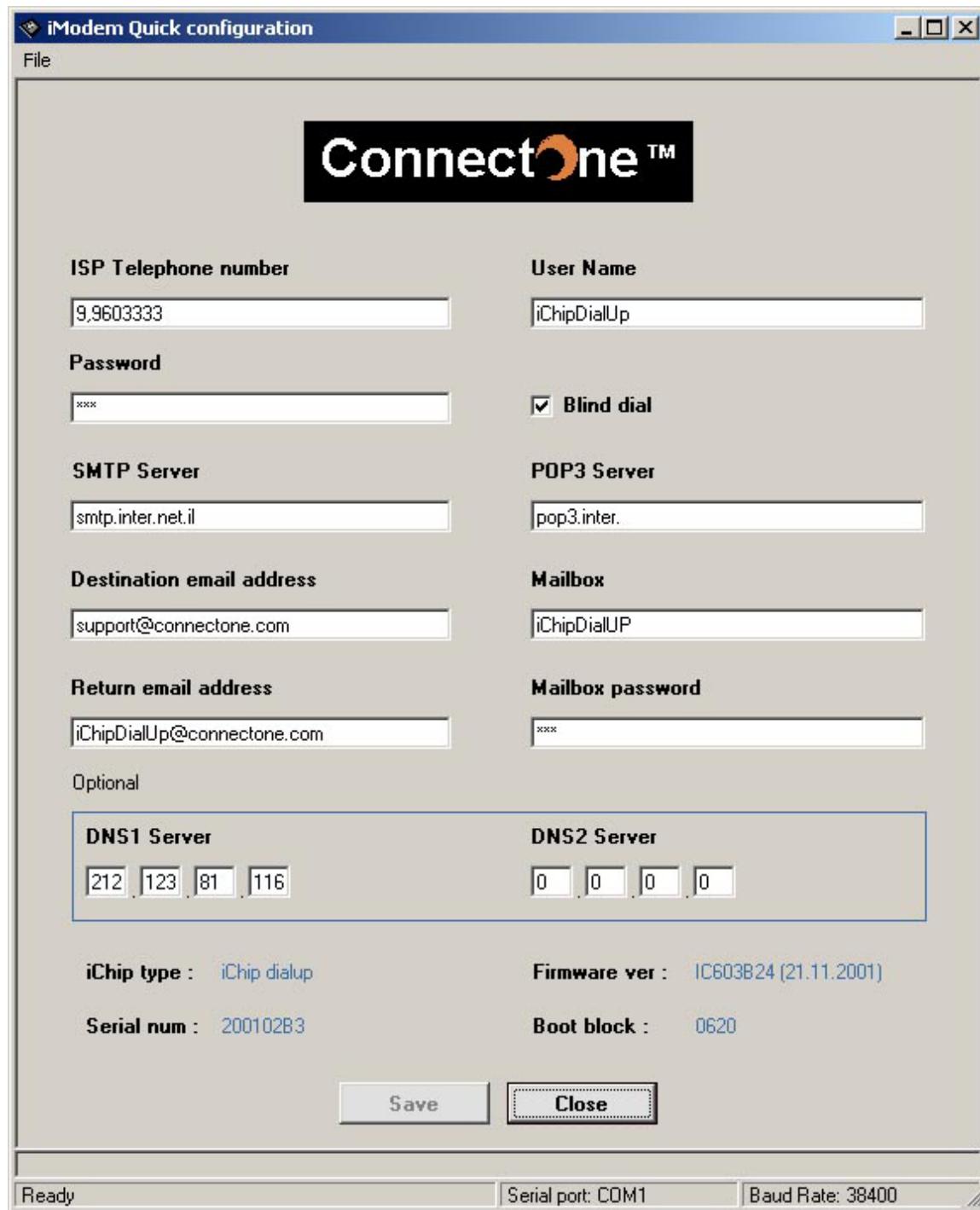
SMTP Server	mail.inter.net.il
Destination email address	izaks@connectone.com
Return email address	izaks@inter.net.il
POP3 Server	mail.inter.net.il
Mailbox	izaks
Mailbox password	xxxxxx
DNS1	139 187 235 51
DNS2	0 0 0 0

NOTE: These parameters are the minimum required to send and receive email. Additional parameters for mail configuration and manipulation are available in the Full Configuration dialog.

When using iLAN, the *Quick Configure* screen includes the following fields:



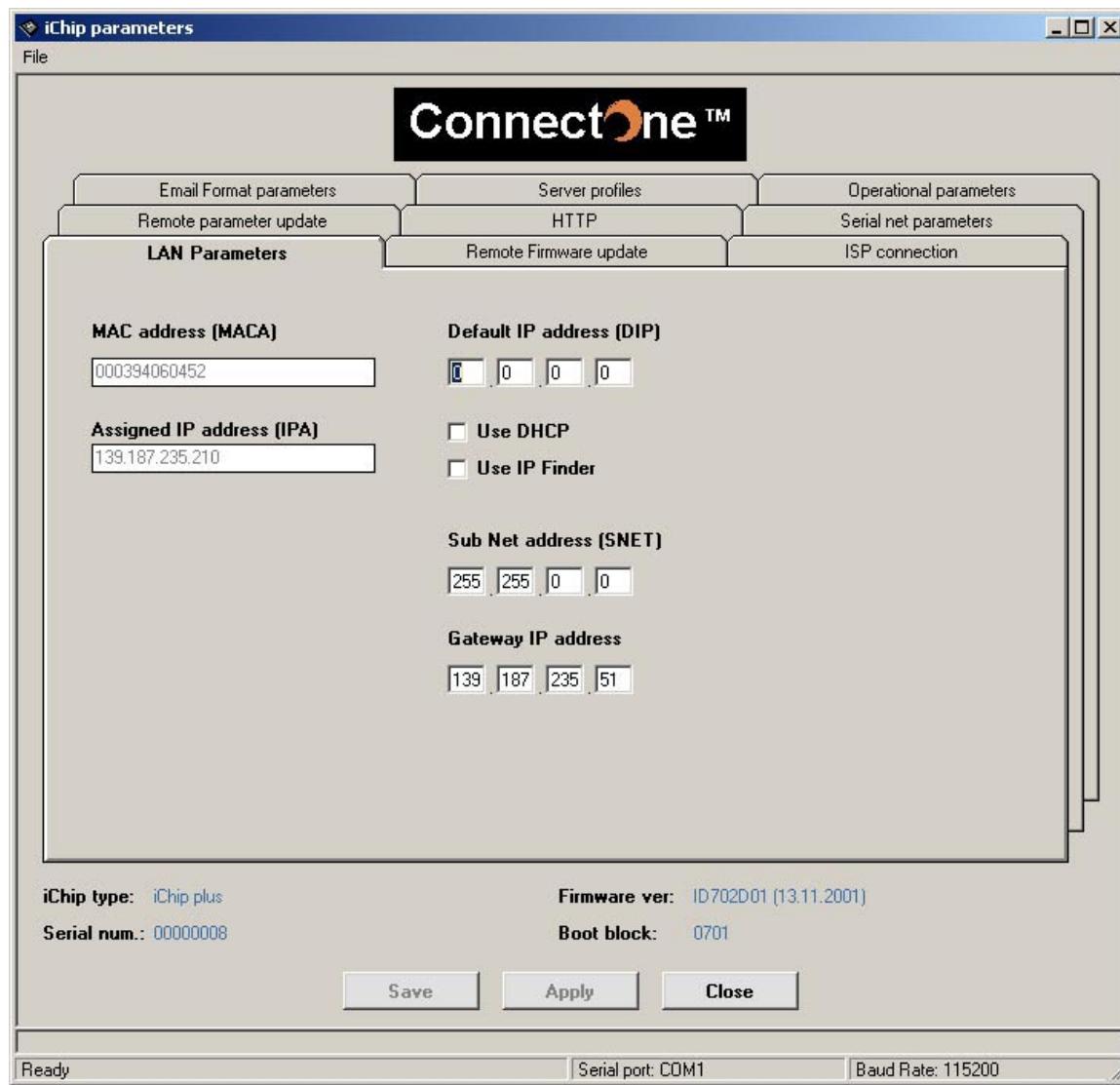
When using iModem, the *Quick Configure* screen includes the following fields:



4.2 Full Configuration

The *Full Configuration* screen has a multi-tab screen with all the iChip parameters grouped according to functionality. The *iLAN Parameters* screen is available on iLAN or II-EVB-100, and includes *MAC address* (MACA) and *Assigned IP Address* (IPA) fields, which are info fields only.

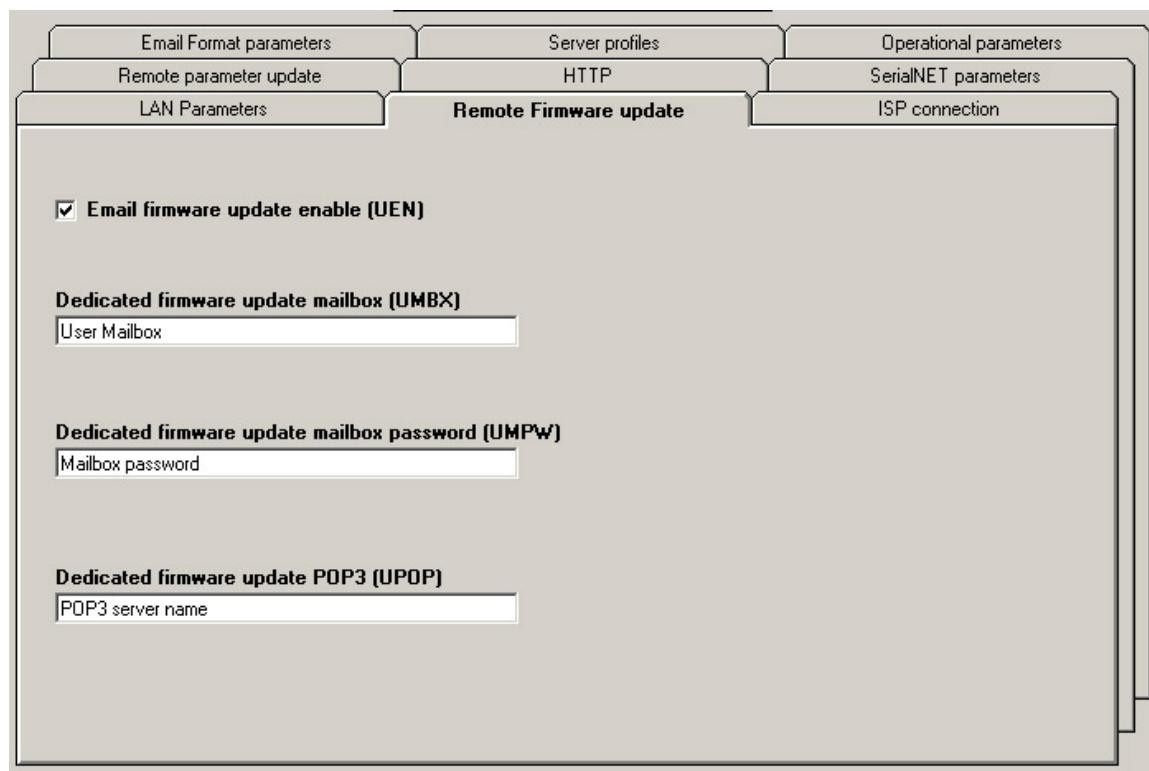
The *Default IP Address* (DIP) can be configured automatically via DHCP or manually. Please review the “Quick Configure” section of this User Manual for more details. *Subnet Address* (SNET) and *IP Address Gateway* (IPG) functionality are also explained in the “Quick Configure” section.



4.3 Remote Firmware Update

iChip's firmware can be remotely updated by simply downloading an email with the new version attached to it. Email firmware updates can be done via regular email retrieval or via a dedicated mailbox. If a dedicated mailbox is used, then the mailbox settings below apply.

Email Firmware Update Enable (UEN) enables or disables email update functionality. If you wish to enable this feature mark the UEN checkbox. *Dedicated firmware update mailbox* (UMBX) is the mailbox user name. *Dedicated firmware update mailbox password* (UMPW) is the mailbox password and *Dedicated firmware update POP3* (UPOP) is the POP3 server name. If a dedicated mailbox is not in use for email firmware update, then UMBX, UMPW and UPOP can be left empty.



4.4 ISP Connection Parameters

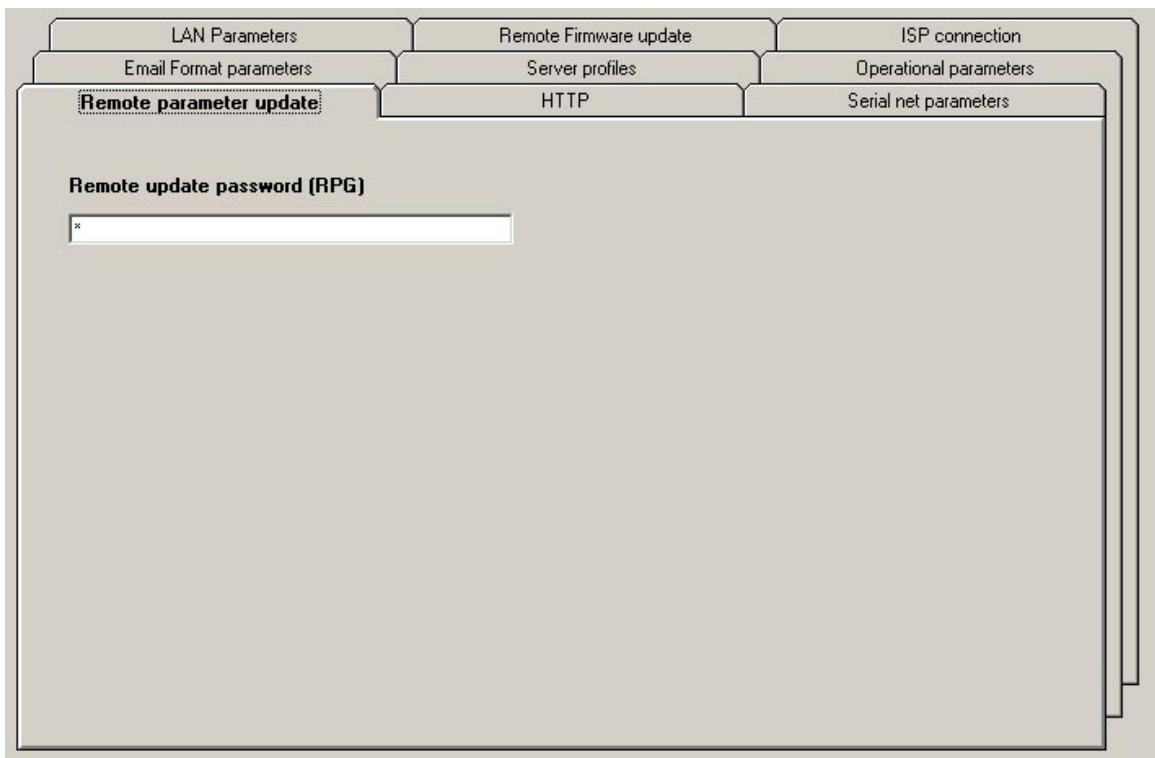
The *First* and *Second phone number* (ISP1 and ISP2) for dial-up ISP access can be entered with a comma for delay, area code, etc. *User name* (USRN) and *Password* (PWD) should be entered exactly as specified by the ISP. *Authentication method* (ATH) should be set according to the ISP capabilities. *Script*, *PAP* or *CHAP* can be chosen. In most cases, *CHAP* is the preferred authentication method.

Email Format parameters	Server profiles	Operational parameters
Remote parameter update	HTTP	Serial net parameters
LAN Parameters	Remote Firmware update	ISP connection
 First phone number (ISP1) <input type="text" value="9.9603333"/> Second phone number (ISP2) <input type="text"/> User name (USRN) <input type="text" value="izaks"/> Password (PWD) <input type="text" value="*****"/>		
Authentication method (ATH) <input type="text" value="PAP"/> Max redial trials (RDL) <input type="text" value="5"/> Wait time before redialing (RTO) <input type="text" value="180"/>		

Remote update password (RPG) has several purposes. When not set, it will disable remote firmware update and will not allow Web parameters to be updated via a Web browser.

When set to ‘*’, iChip will not require a password from the remote user.

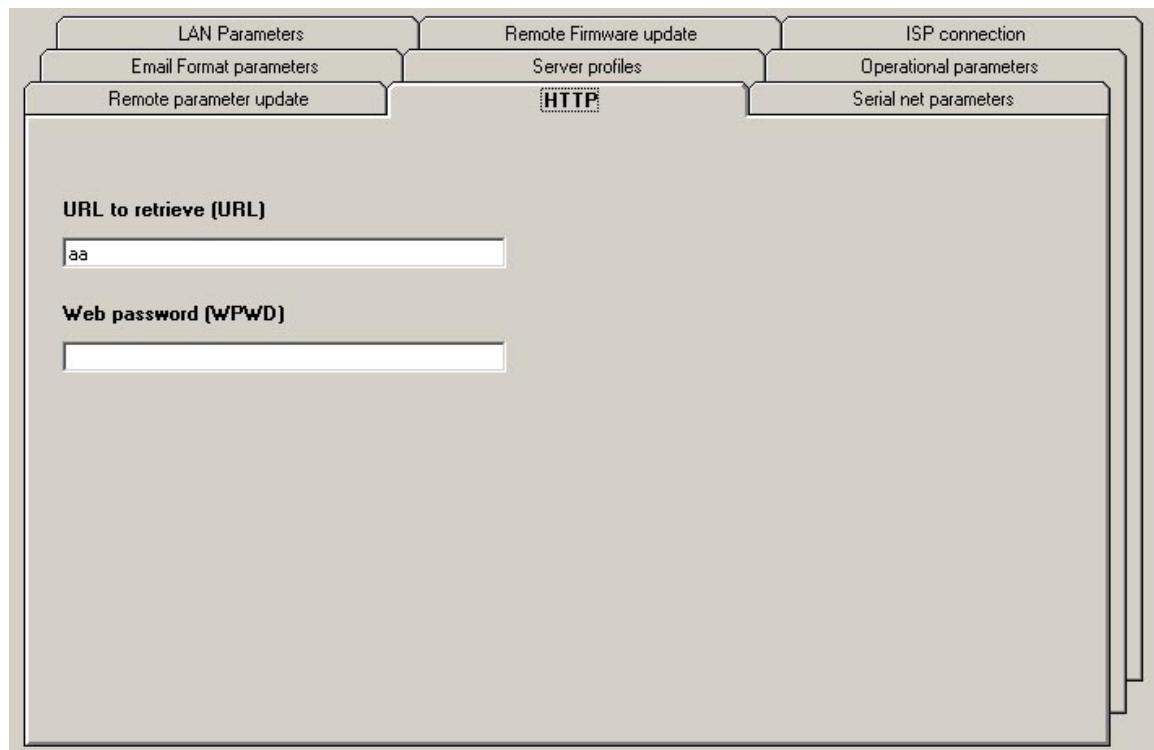
When set to any other password, iChip will require the remote user to submit the exact password as sorted on RPG.



4.5 Web Parameters Update (HTTP)

URL to retrieve (URL) is the URL address from which iChip will retrieve the HTTP page or item, like a picture within the page.

Web Password (WPWD) is for server purposes. When empty, *Web parameters update* is disabled. When set to ‘*’, no password will be used to authenticate parameters submit. When set to any other value, the password authentication procedure will take place.



4.6 SerialNET Parameters

SerialNET is a mode whereby AT+i commands (except for a one-time setup) are NOT required to put iChip into serial-to-Internet mode.

Enable connection to Web (AWS) sets the iChip Web server to "Enabled" or "Disabled" mode, while in SerialNET mode.

Character to enforce flush (FCHR) is generates a TCP packet flush when received.

Max characters before flush (MCBF) sets the maximum characters buffered by iChip before a TCP packet is flushed.

Max timeout to flush (MTTF) sets the maximum time to wait before a TCP packet is flushed.

Disconnection string (DSTR) sets a string that will trigger iChip to complete the SerialNET session (it will also go offline on iModem or iChip Dial-Up).

Inactivity time-out (IATO) is the maximum time to wait from the last activity before completing the SerialNET session (iChip LAN) and disconnecting the line (iChip Dial-Up).

Timeout before re-establishing connection (SNRD) sets the number of seconds that iChip will wait before attempting to establish a socket connection.

Port setting for SerialNET (SNSI) sets the baud rate, number of data bits, parity and stop bit for iChip in SerialNET mode.

Socket type (STYP) sets the socket type to the destination to be TCP or UDP.

Server SerialNET listening port (LPRT) sets the listening port number for the SerialNET server.

IP address to connect to (HSRV) sets the port server name or IP address and port number to locate and establish a connection when serial data is transmitted from the device.

IP address to send (RRSV) sets the ring response server name or IP address and port number to locate and establish a connection after iChip has established a connection to the ISP in response to a RING detected on the modem. The IP address dynamically assigned to iChip by the ISP will be sent to the server in ASCII form, after which the socket will be closed.

Email address to send IP (RRMA) contains the name of the addressee that will receive an Email message after iChip establishes a connection to the ISP in response to a RING detected by the modem. The Email will contain the IP address, the ISP dynamically assigned to iChip, and its LPRT listen port.

NOTE: to enter SerialNET mode using the iChip Config utility, choose *SerialNET* → *Enter SerialNET Mode* from the main menu.

To exit SerialNET Mode and to enter iChip Mode, choose *SerialNET Mode* → *Exit SerialNET Mode* from the main menu.

LAN Parameters	Remote Firmware update	ISP connection
Email Format parameters	Server profiles	Operational parameters
Remote parameter update	HTTP	SerialNET parameters

Enable connection to web server (AWS)

Characters to enforce flush (FCHR)
a

Max characters before flush (MCBF)
0

Max timeout to flush (MTTF)
0

Disconnection string (DSTR)
aaa

Inactivity timeout (IATO)
0

Timeout before reestablishing connection (SNRD)
0

Port settings for serialNET (SNSI)
5,8,N,1,0

Socket type (STYP)
TCP

Server serialNET port (LPRT)
0

IP address to connect to (HSRV)
123.11.64.76 : 1

IP address to send IP (RRSV)
123.11.64.79 : 2

Email address to send IP (RRMA)
iChip@connectone.com

4.7 **Email Format Parameters**

The following parameters enable flexibility when sending or retrieving emails as well as for configuring emails format and various properties.

Transmit Email headers (XFH) enables the host to receive the email body with or without the header.

Limit number of headers (HDL) sets the maximum number of header lines to retrieve.

Filter String (FLS) sets an ASCII string that qualifies an email message to be listed (via RML) or retrieved (via RMM) by iChip.

Subject (SBJ) sets the sent email subject field.

Email address (TOA) specifies the addressee email address.

Address description (TO) enables entering a logical name in the address description field.

Return email address (REA) sets the iChip email address selected for receiving emails.

Sender description (FRM) sets the iChip sender description field.

Alternate addressee (CC1-CC4) sets up to four CC (copy) fields for sent emails.

Media type (MT) sets the Media type (audio, video, application or text) used when generating an email with a MIME attachment.

Media subtype (MST) sets the media subtype (see Appendix in AT+i Programmer's Manual for examples) when generating an email with a MIME attachment.

Attachment file name (FN) sets the attachment file name when generating an email with a MIME attachment.

Remote parameter update	HTTP	Serial net parameters
LAN Parameters	Remote Firmware update	ISP connection
Email Format parameters		Server profiles
Operational parameters		
Alternate addressee (CC1) <input type="text" value="info@connectone.com"/>		
Alternate addressee (CC2) <input type="text"/>		
Alternate addressee (CC3) <input type="text"/>		
Alternate addressee (CC4) <input type="text"/>		
Message body (BDY) <input type="text"/>		
Media type (MT) <input type="text" value="Video"/>		
Media subtype string (MST) <input type="text"/>		
Attachment file name (FN) <input type="text"/>		
Transmit Email headers (XFH) <input type="checkbox"/>	Limit number of headers (HDL) <input type="text" value="0"/>	
Filter String (FLS) <input type="text"/>		
Subject (SBJ) <input type="text" value="iChip Test Subject"/>		
Email address (TOA) <input type="text" value="izaks@connectone.com"/>		
Address description (TO) <input type="text" value="Izak Shoshana"/>		
Return Email address (REA) <input type="text" value="iChip@connectone.com"/>		
Sender description (FRM) <input type="text" value="iChip Plus 015"/>		

4.8 Server Profiles

The following parameters are used to set the outgoing and incoming servers and mailbox settings:

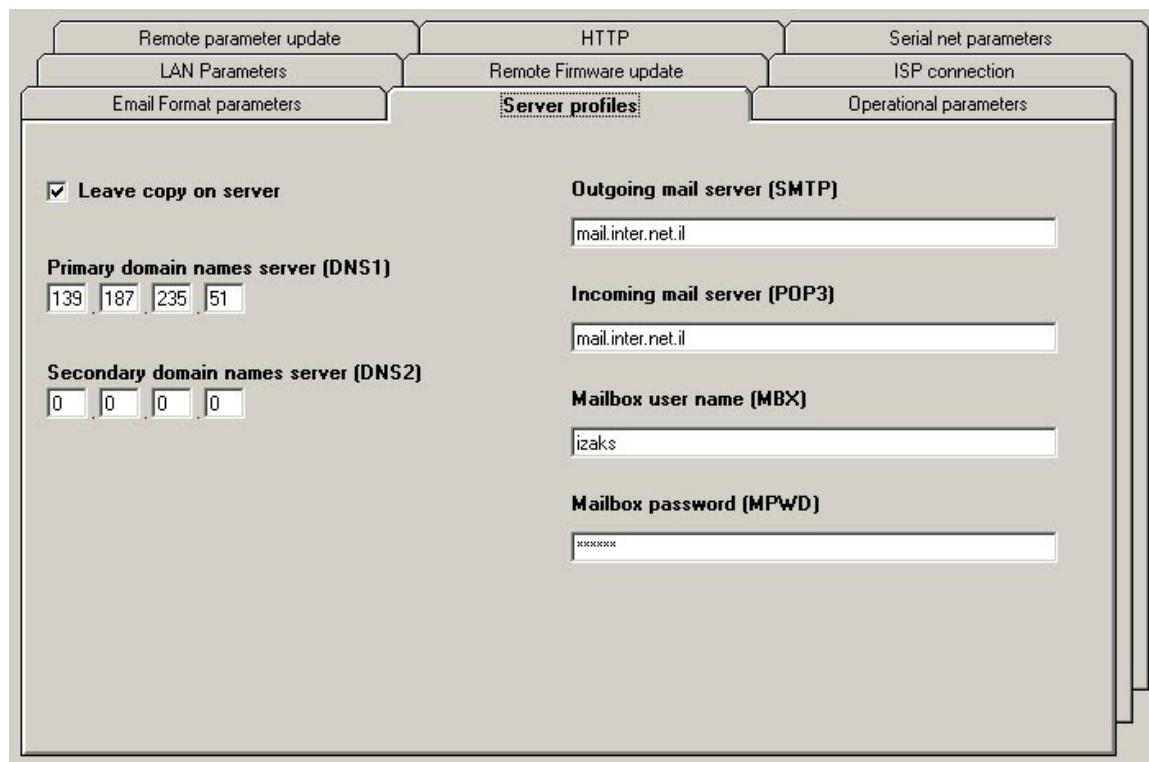
Leave copy on server (LVS) enables or disables the deletion of retrieved emails from the mailbox.

Primary domain name server (DNS1 and DNS2) is used by iChip to transform a logical server name into an IP address. This field can be left empty when the exact server IP address is known or when using DHCP with extended result feature.

Outgoing mail server (SMTP) sets the outgoing SMTP mail server name. Both IP address and logical name can be used.

Incoming mail server (POP3) sets the incoming POP3 mail server name. Both IP address and logical name can be used.

Mailbox user name (MBX) and *Mailbox Password* (MPWD) are the mailbox username and password specified by your ISP.



The screenshot shows the 'Server profiles' tab selected in a window with the following fields:

- Leave copy on server:**
- Outgoing mail server (SMTP):** mail.inter.net.il
- Primary domain names server (DNS1):** 139.187.235.51
- Secondary domain names server (DNS2):** 0.0.0.0
- Incoming mail server (POP3):** mail.inter.net.il
- Mailbox user name (MBX):** izaks
- Mailbox password (MPWD):** *****

4.9 Operational Parameters

Extended return code (XRC) is identical to ATXn and applicable only for modem operation or II-EVB-100 in iModem mode. To use the blind-dial feature in “On” mode, set the XRC to “0”. To set the blind dial feature to “Off”, set the XRC to “4”.

Modem initialization string (MIS) determines the Modem init string.

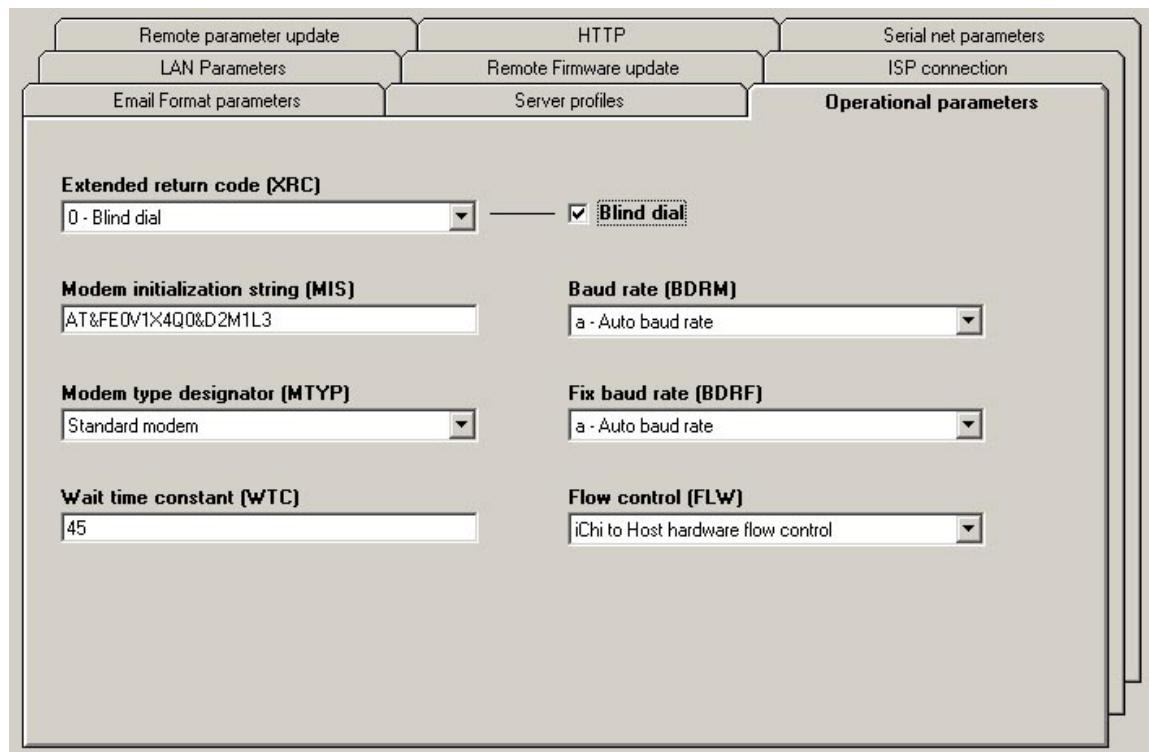
Modem type designator (MTTP) sets iChip to support specific modem types. Analog modems, SiLabs Si2400 ISOmodem, GSM and AMPS wireless modems are supported.

Wait time to continue (WTC) sets the modem S7 register to the required value.

Baud rate (BDRM) sets the iChip \leftrightarrow Modem baud rate. Any baud rate from 2,400 to 115,200 bps can be set. An auto baud rate detection feature is also available.

Fixed baud rate (BDRF) sets the Host \leftrightarrow iChip baud rate. Any baud rate from 2,400 to 115,200 bps can be set. An auto baud rate detection feature is also available.

Flow control (FLW) sets the Host \leftrightarrow iChip and iChip \leftrightarrow Modem flow control. Hardware flow control or iChip Wait/Continue flow control can be chosen.



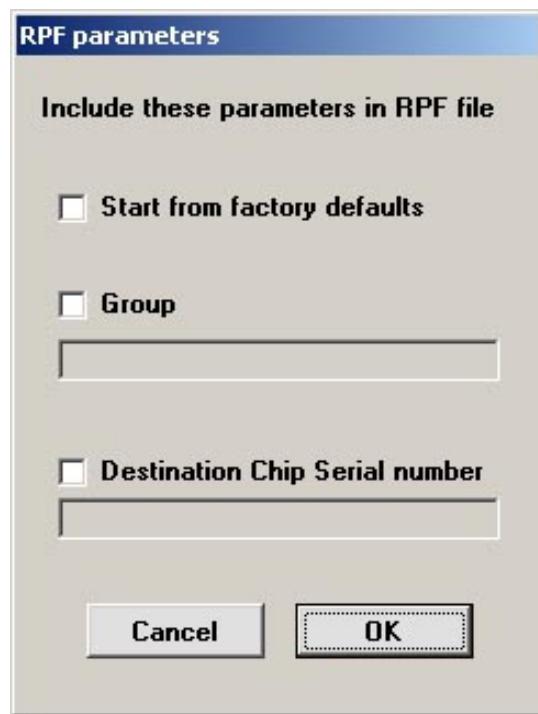
4.10 Saving iChip Configuration to an RPF File

All or part of the parameters stored on iChip can be saved to a Remote Parameters File (RPF) or be loaded from an RPF file to iChip, with or without parameters configured on it.

To save the current iChip configuration into an RPF file, from the *Full Configuration* screen click on *File* → *Save as RPF File*. The following dialog appears:

To save new parameters starting from factory default settings, mark the *Start from factory default* checkbox.

To save your current configuration as is, except for parameters in the RPF file, leave the *Start from factory default* checkbox empty.



If you have the RPG parameter set in the iChip, you must check the *Group* checkbox and enter the RPG parameter value in the textbox.

To load parameters file to a specific iChip located in a group, set the *Destination Chip Serial number* and enter the unique iChip serial number in the textbox.

NOTE: The unique iChip serial number can be obtained with the AT+iRP5 command or from the info section available on the bottom section of the iChip Config screens.

5. Loading an RPF File

From the main menu, click on *File* → *Load RPF file*. The following screen will appear:



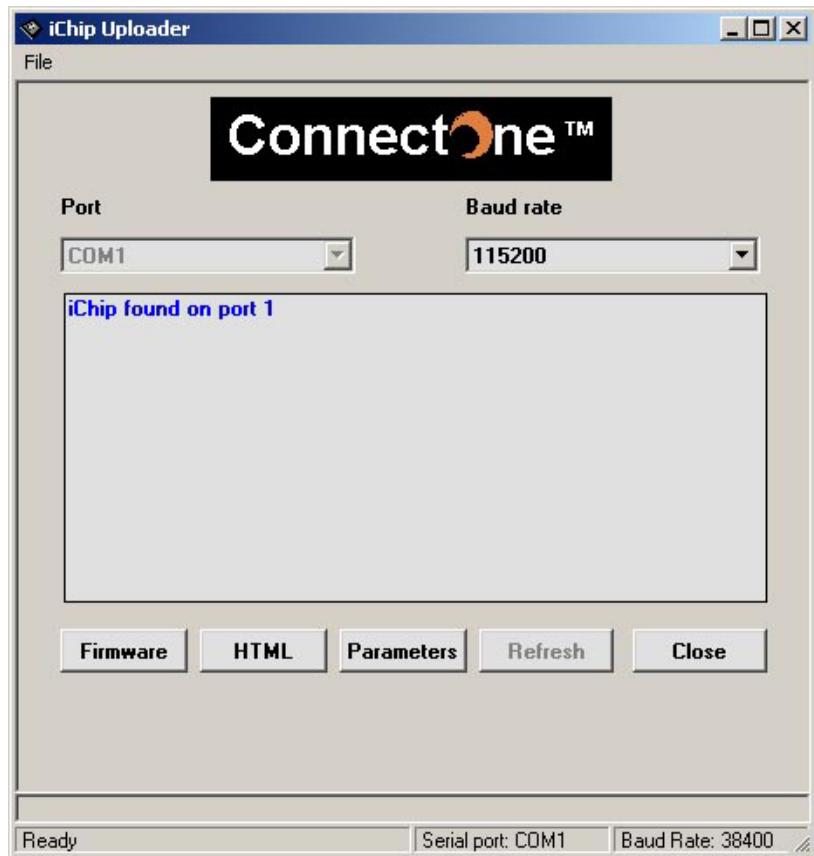
Browse to and select the desired file. All the parameters that appear on the RPF file will be loaded onto iChip. In case an illegal parameter value was assigned, the iChip Config utility will show the illegal parameter(s) and will offer to save the offending parameter(s) to a log.

Enter new valid parameter value(s) and load/save the RPF file again.

6. iChip Uploader

The *iChip Uploader* screen allows uploading iChip serially with Boot Block, Application, RPF file, and a Website, all without requiring AT+i commands or a hyper terminal.

From the main menu, click the *iChip Uploader* via the serial icon. The following screen appears:



6.1 **Firmware Update**

To perform a Boot Block or Application firmware update, select the *Firmware* button. A *File Select* dialog appears. Browse to the desired IMF file and click *OK*. *Acknowledge* will load the file onto iChip.

To save time and to shorten the procedure, choose a higher baud rate before loading the Boot Block or application file onto iChip.

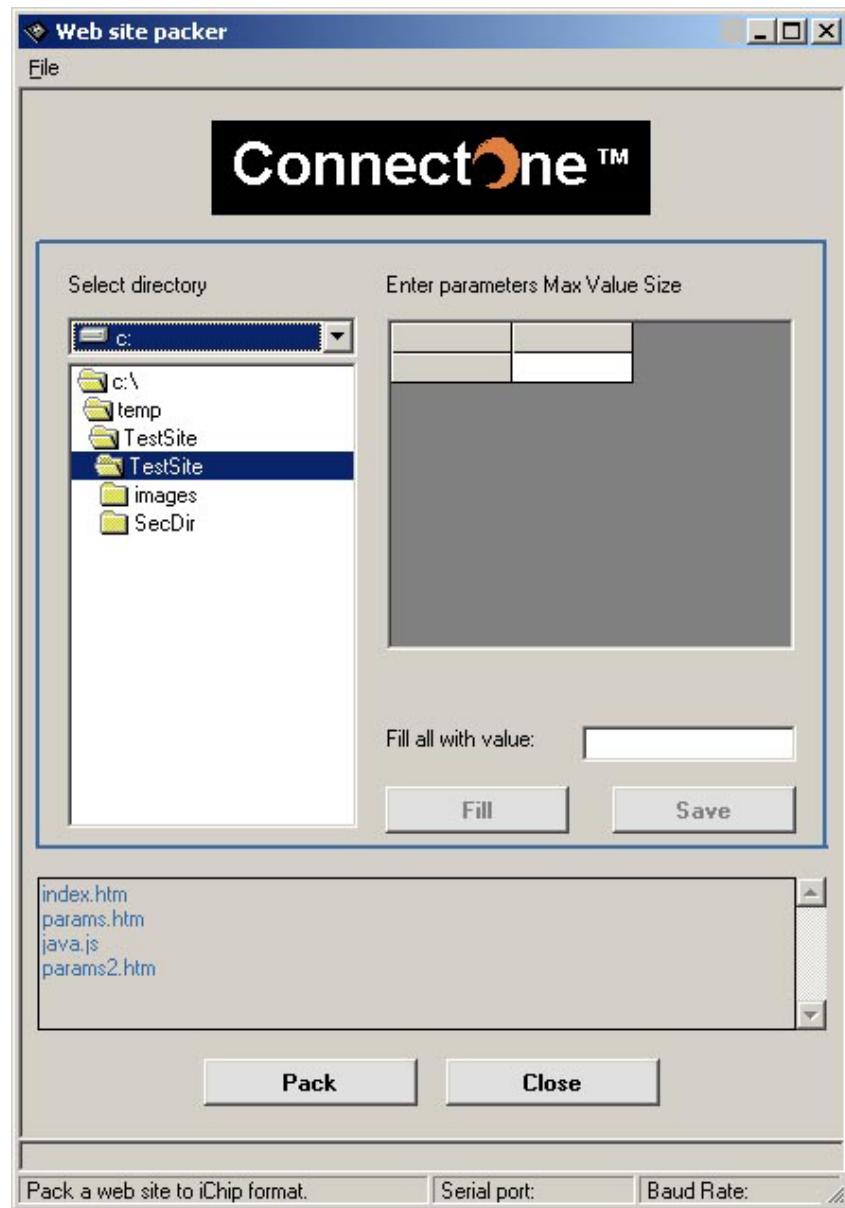
NOTE: Should a previous firmware upgrade be unsuccessful or if the procedure was not finished, the *Auto recover screen* will take over the firmware update procedure.

The same procedure applies for Parameters Update.

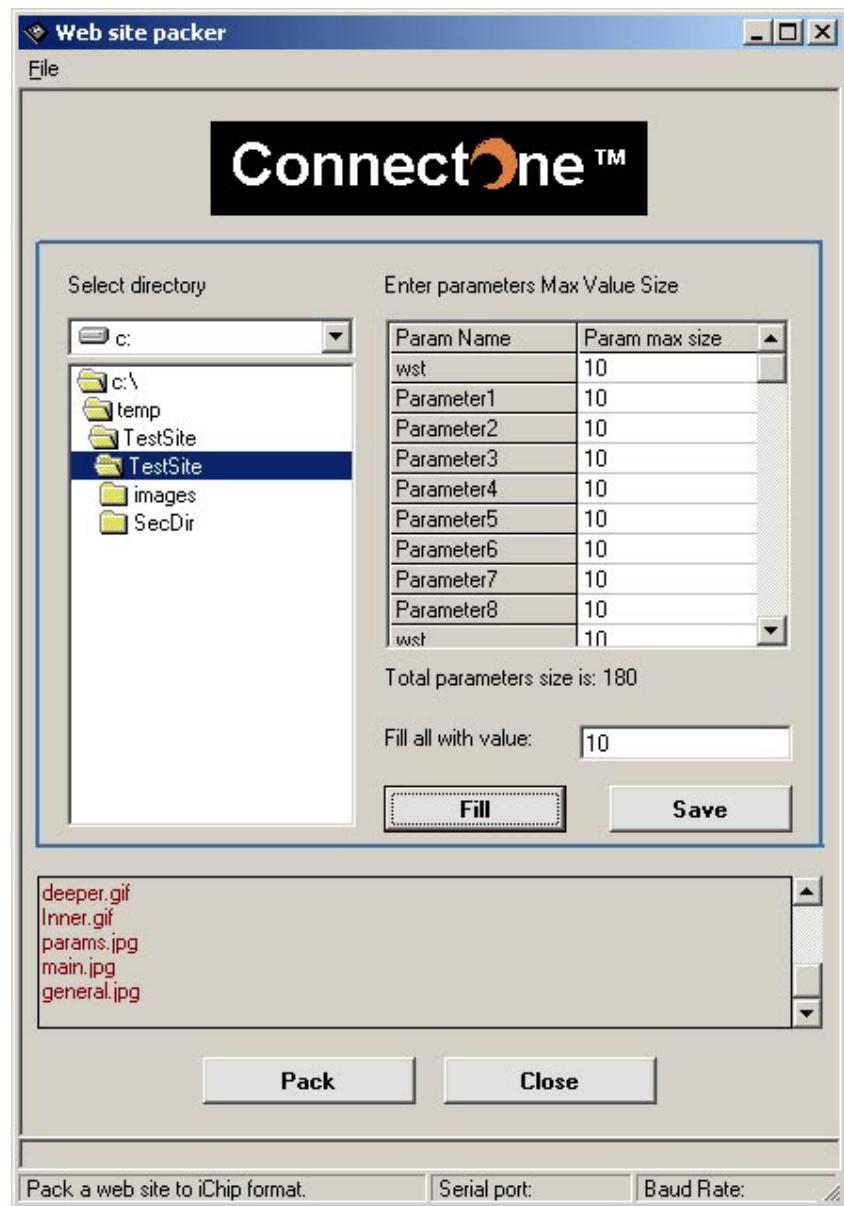
7. Website Packing

From version 7.0x and above, iChip supports Website serving and not just a single Web page serving, as was available in previous versions. It is necessary to pack the Website before loading it onto iChip.

To pack a Website and upload it serially, from the main menu click the *Site Pack* icon. The following dialog appears:



Using the navigation tree, locate the root directory of your Website and click *Pack*. The parameters of your Website will appear on the right side for size determination.



You can specify the size (in characters) for each parameter or use the *Fill* button to apply the same size to all parameters.

Once the size is assigned, click *Save*, chose the file name and location and click *Close*.

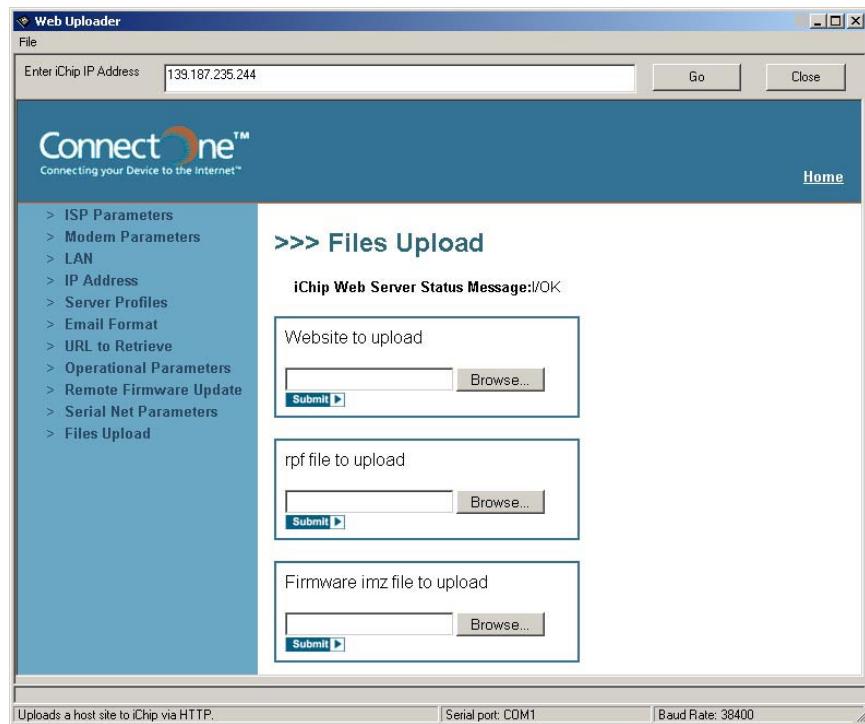
Web upgrade is not functional in this version.

8. HTTP Upload

8.1 Website Upload Via HTTP

To perform a Website upload, parameters upload or image file upload via the Web, please do the following:

- From the main screen, chose *Dumb Terminal* and type “AT+iwww”. iChip will respond with “I/(IP Address)”.
- From the main screen, click on the *iChip Site Uploader via HTTP* icon.
- Enter the IP address that iChip reports and click *Go*. The following screen appears:



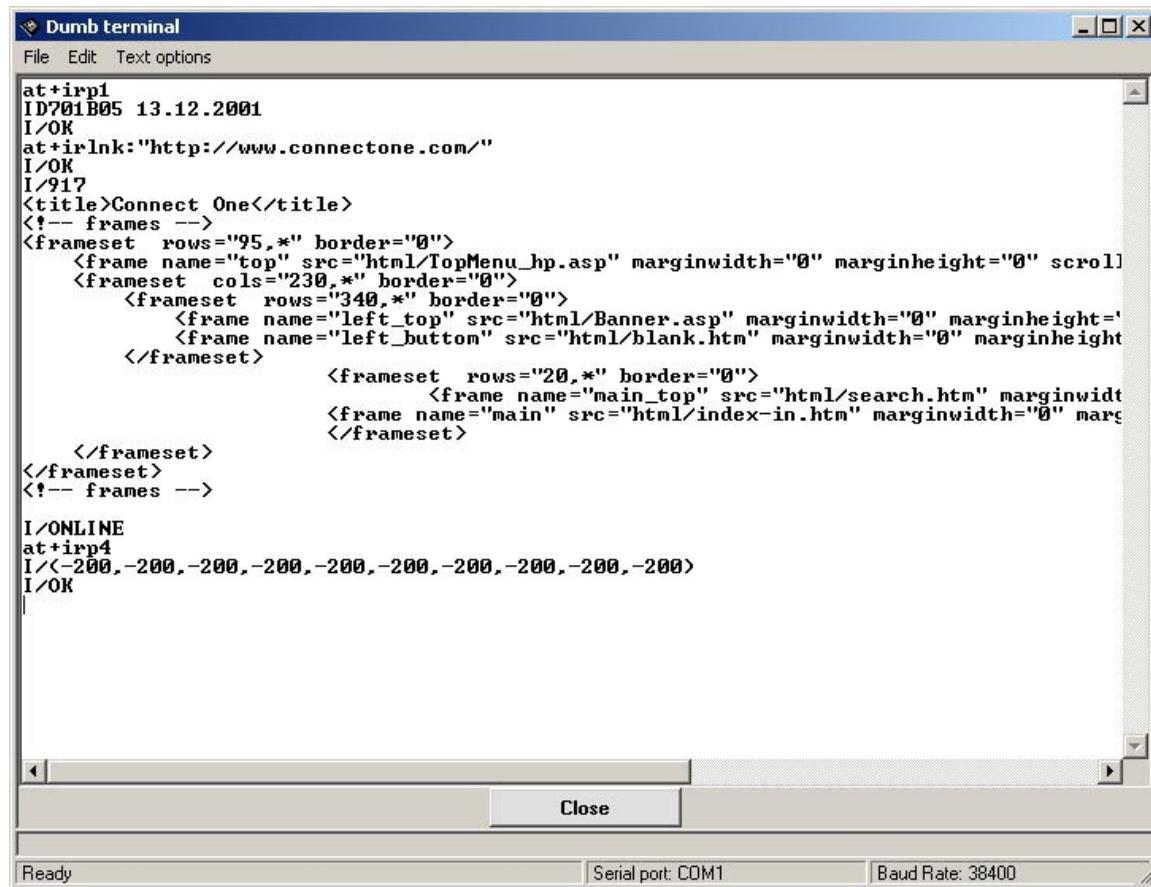
NOTE: this site contains iChip’s internal Website. Typing in any Web browser the IP address assigned to iChip and the iChip path will lead to the internal Website. For example, “http://168.2.0.21/ichip” will show the iChip internal Website. Configuring and monitoring the Website are password governed. Please review the AT+iRPG parameter description for more details.

To load a Website onto the iChip, click the upper *Browse* button, choose the *Packed Web Site*, click *OK* and submit.

The same operation is used for parameters file upload and image file upload.

9. Dumb Terminal

A dumb terminal is included in the utility, allowing the user to enter AT or AT+ commands and to review the iChip or modem response. To enter the Dumb Terminal mode, click the *Dumb Terminal* icon on the main screen. The following screen appears:



The screenshot shows a Windows-style application window titled "Dumb terminal". The menu bar includes "File", "Edit", and "Text options". The main text area displays the following text:

```
at+irp1
ID701B05 13.12.2001
I/OK
at+irlnk:"http://www.connectone.com/"
I/OK
I/917
<title>Connect One</title>
<!-- frames -->
<frameset rows="95,*" border="0">
  <frame name="top" src="html/TopMenu_hp.asp" marginwidth="0" marginheight="0" scroll
  <frameset cols="230,*" border="0">
    <frameset rows="340,*" border="0">
      <frame name="left_top" src="html/Banner.asp" marginwidth="0" marginheight="0"
      <frame name="left_button" src="html/blank.htm" marginwidth="0" marginheight="0"
    </frameset>
    <frameset rows="20,*" border="0">
      <frame name="main_top" src="html/search.htm" marginwidth="0" marginheight="0"
      <frame name="main" src="html/index-in.htm" marginwidth="0" marginheight="0"
    </frameset>
  </frameset>
</frameset>
<!-- frames -->

I/ONLINE
at+irp4
I/(-200,-200,-200,-200,-200,-200,-200,-200,-200)
I/OK
```

At the bottom of the window, there is a toolbar with a "Close" button. The status bar at the bottom shows "Ready", "Serial port: COM1", and "Baud Rate: 38400".

To leave Dumb Terminal mode, click the *Close* button.

10. Send Email with MIME Attachment

To send an email with or without a MIME attachment, general settings must be applied first. Make sure that ISP or LAN settings are correct and that the Mailbox username, password and Return email address are entered.

To send an email, the SMTP server must be specified. Check the Full Configuration, Email, and ISP settings tabs for more details.

Once the send email attachment icon is pressed, the following screen appears:

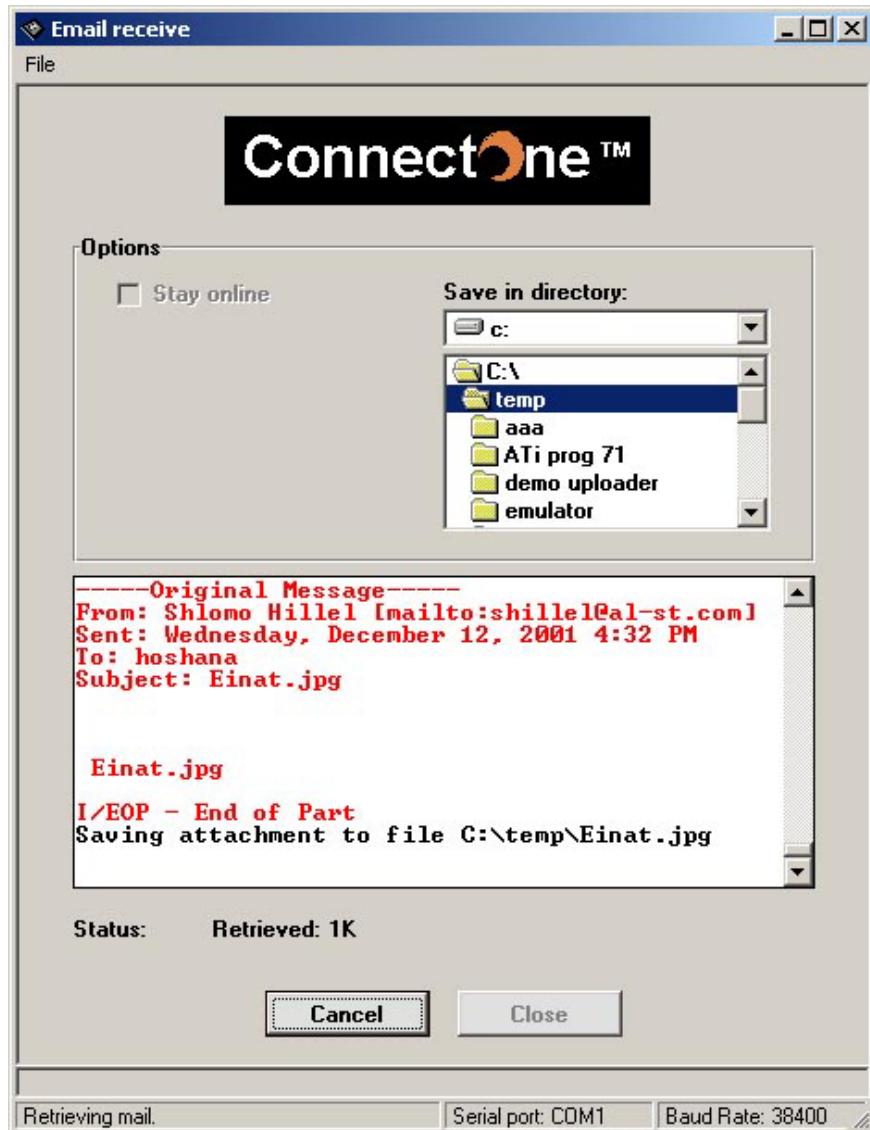


Choose hardware or software flow control. For iChip Dial-up and iChip Plus in dial-up mode, specify whether you wish to stay on line after the email was sent.

To choose the MIME attachment to be sent, click on *Start* and choose the file. The iChip will show a status message on the “Flow control Status” line.

11. Receiving Emails

The iChip Config utility enables retrieving and saving emails using the iChip. To start receiving emails, from the main screen click the *Receive email* icon. The following page appears:



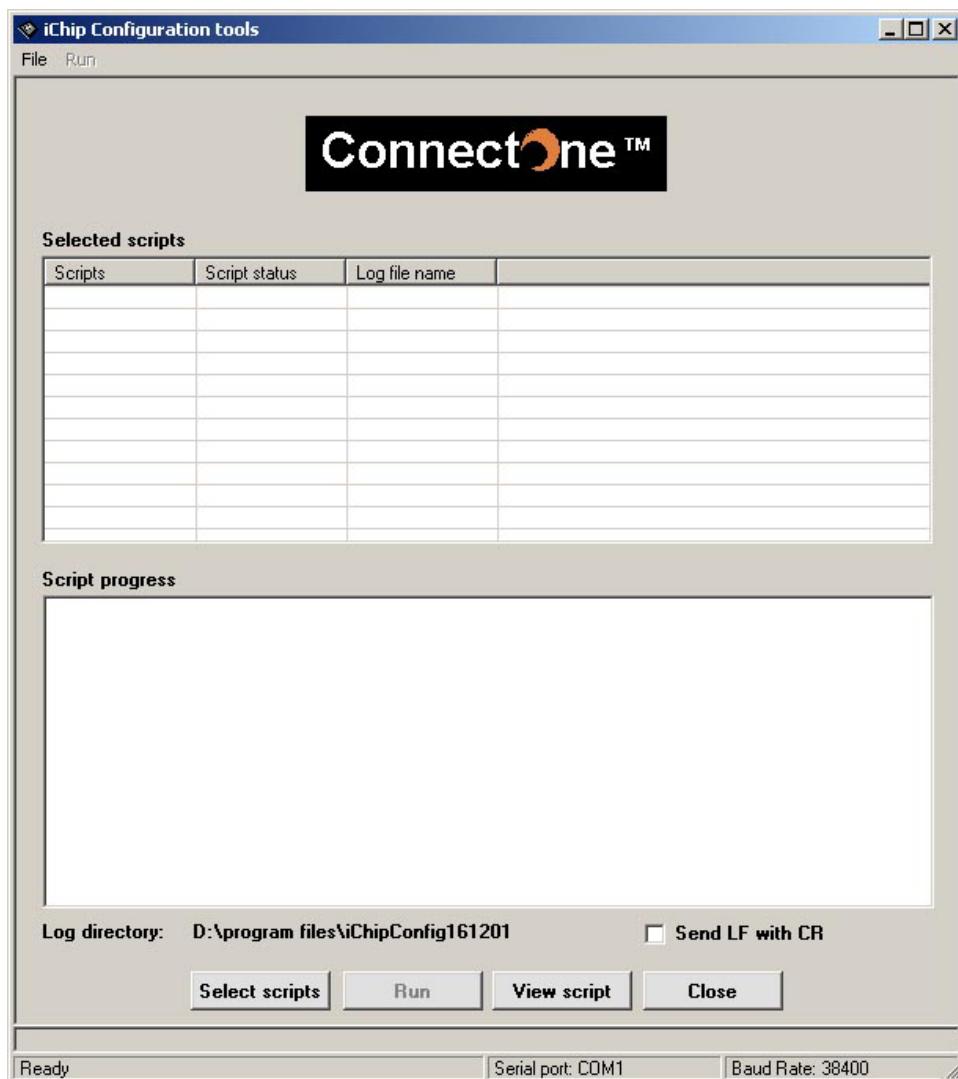
During download, email content will be displayed on the message window and attachments will be saved to the chosen directory.

12. Script Tool

The Script Tool enables the execution of tasks that are time-sensitive (like timeout when working with sockets) and can enable running AT+i commands in sequence for automatic tests or for tasks that require long run time.

Scripts can be linked and will be executed by the scripted tool according to order of appearance. Full log files of all activity are saved, status message describes the current script status, and scripts can be viewed and edited from within the script tool.

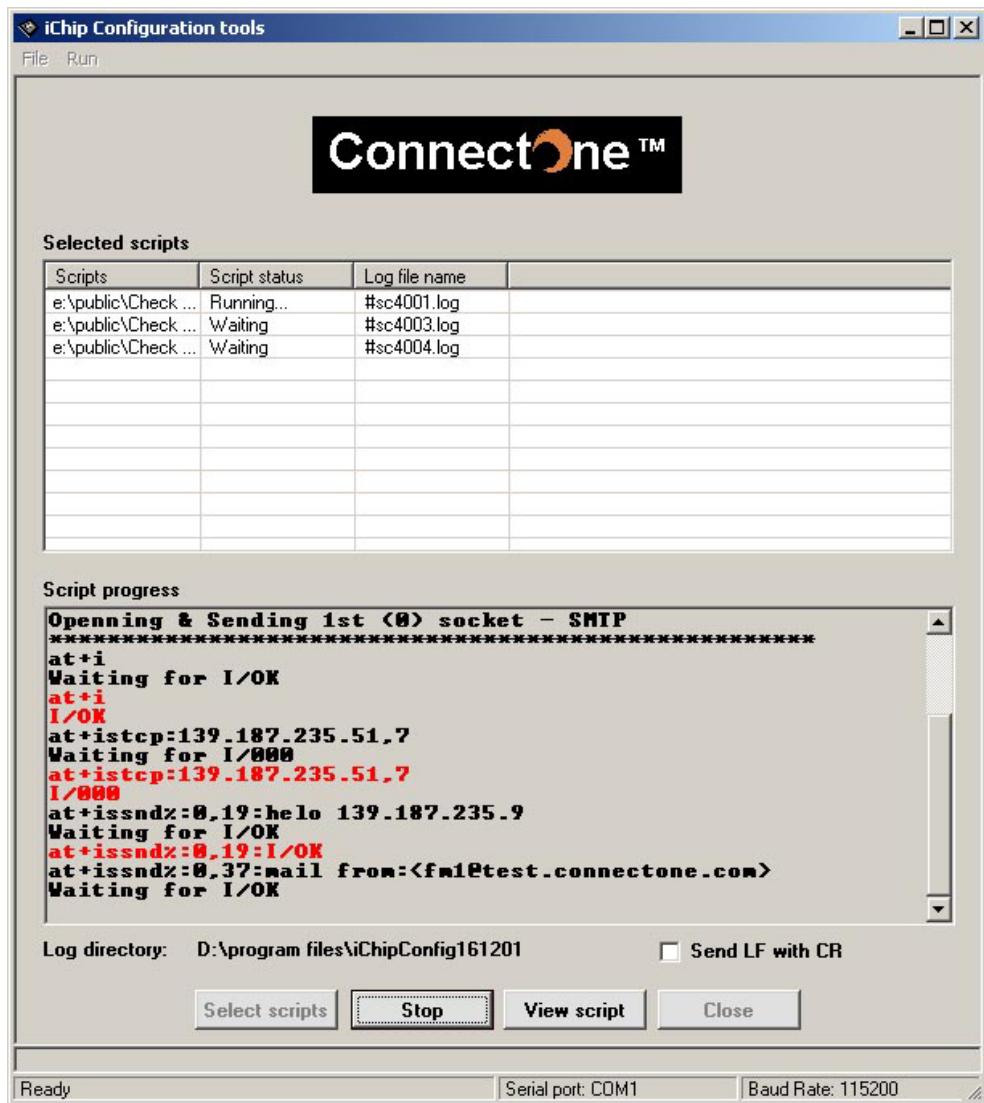
To start the Script Tool, click the *Script Tool* icon from the main screen. The following screen appears:



Select the script or scripts to be executed using the *Select Scripts* button and click *OK*. You have the option to search in sub folders using the *Search sub folder* checkbox and refresh the available scripts list using the *Refresh* button.



Once the scripts are chosen, click *Run* to execute the chosen script or scripts.



The Script Tool will stop on “I/Error”, when the script(s) are over, or when the *Stop* button was pressed.

The *View Script* button will open the script in Notepad and will enable script viewing and editing.

Although it is recommended to terminate every command to the iChip with “CR”, the Script Tool supports a mode of operation where both LF and CR are used to terminate every AT or AT+i command.

13. Changing iChip Plus Communication Platform

This option is only applicable for iChip Plus. Once the *Change iChip Plus Communication Platform* icon was pressed the following screen appears:



The iChip Config utility recognizes the current chosen communication platform and offers a radio button to change to a different one.

Simply chose the new communication platform and click *OK*.

14. Get URL

iChip Config supports the retrieval of Web pages or items within a Web page. From the main screen, click the *Get URL* icon. The following screen appears:



Type the URL to be retrieved and add a slash ('/') at the end of the URL if not entered fully (for example, <http://www.connectone.com/>), or enter a full path without the slash (for example, <http://www.connectone.com/index.htm>).

With iModem or iChip Plus in dial-up mode, you can choose to stay online by checking the *Stay online* option.

Checking the *Show in browser* checkbox will cause the iChip Config utility to open the retrieved Web page in the default browser.

Retrieved Web pages are saved into the specified path under the *Save as* textbox and under the filename specified by the user.

Once a Web page or item is retrieved, the utility will show a success or fail message.